

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2003/002429

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7 G02B 6/36

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 G02B6/36, 6/26

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
KOREAN PATENTS AND UTILITY MODELS

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
KIPSS, DELPHION

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP60-250312A(NEC CORP) 11 DECEMBER 1985 (11.12.1985), See entire document. Especially, see Fig.4.	1-9
A	KR91-6772B1(MISUBISHI) 2 SEPTEMBER 1991 (02.09.1991), See entire document	1-9
A	JP10-206674A(YAZAKI CORP) 7 AUGUST 1988 (07.08.1988), See entire document	1-9
A	KR1999-44025A(TELEPHONE AKTIBOLTAGATE) 25 JUNE 1999 (25.06.1999), See entire document.	1-9
A	JP09-222533A(FUJITSU LTD) 26 AUGUST 1997 (26.08.1997), See entire document.	1-9

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

- \* Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family


Date of the actual completion of the international search

30 MARCH 2004 (30.03.2004)

Date of mailing of the international search report

31 MARCH 2004 (31.03.2004)

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

PCT/KR2003/002429

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP60-250312A	11.12.1985	NONE	
KR91-8772B1	02.09.1991	US4850864 KR9106772B1 JP61292103A2 CA1278713A1	1989-07-25 1991-09-02 1986-12-22 1991-01-08
JP10-206674A	07.08.1988	NONE	
KR1999-44025A	25.06.1999	W09707420A1 US5980118 SE9502896A0 SE9502896A SE0504811C2 N00980725A0 N00980725A JP11511266T2 EP0846280A1 BR9610008A AU6840996A1 AU0712030B2	1997-02-27 1999-11-09 1995-08-21 1997-02-22 1997-04-28 1998-02-20 1998-03-27 1999-09-28 1998-06-10 1999-10-19 1997-03-12 1999-10-28
JP09-222533A	26.08.1997	NONE	